Title (en)

HYDROGEL-FORMING MATERIAL

Title (de)

HYDROGELBILDUNGSMATERIAL

Title (fr)

MATIÈRE FORMANT UN HYDROGEL

Publication

**EP 2700691 A4 20141015 (EN)**

Application

**EP 12774725 A 20120420**

Priority

- JP 2011096048 A 20110422
- JP 2012060742 W 20120420

Abstract (en)

[origin: EP2700691A1] There is provided a hydrogel-forming material from which a hydrogel can be formed with a simpler method and under milder conditions. A hydrogel-forming material comprising a lipid peptide-type gelator that is formed of at least one selected from compound of the following formula (1): where R 1 is a C 9-23 aliphatic group; R 2 is a hydrogen atom or a C 1-4 alkyl group which optionally has a C 1-2 branched chain; R 3 is a -(CH 2 ) n -X group; n is a number from 1 to 4; and X is an amino group, a guanidino group, a -CONH 2 group, or a 5-membered ring group or a 6-membered ring group, or a condensed ring group that contains a 5-membered ring and a 6-membered ring, optionally containing 1 to 3 nitrogen atoms, and the similar compounds or pharmaceutically usable salts thereof; water; and an additive including either an organic acid or an organic acid salt.

IPC 8 full level

**C09K 3/00** (2006.01)

CPC (source: CN EP KR US)

**A61K 8/24** (2013.01 - CN EP US); **A61K 8/36** (2013.01 - CN EP US); **A61K 8/362** (2013.01 - CN EP US); **A61K 8/365** (2013.01 - CN EP US); **A61K 8/368** (2013.01 - CN EP US); **A61K 8/64** (2013.01 - CN EP US); **A61K 9/06** (2013.01 - US); **A61K 38/00** (2013.01 - KR); **A61K 47/08** (2013.01 - KR); **A61K 47/42** (2013.01 - CN US); **A61L 15/32** (2013.01 - CN); **A61L 31/047** (2013.01 - CN); **A61Q 19/00** (2013.01 - CN EP US); **C07K 5/06026** (2013.01 - CN EP US); **C07K 5/0806** (2013.01 - CN EP US); **C07K 5/0821** (2013.01 - EP US); **C07K 5/1008** (2013.01 - CN EP US); **C07K 5/1024** (2013.01 - EP US); **C07K 19/00** (2013.01 - KR); A61K 2800/48 (2013.01 - EP US)

Citation (search report)

- [X] EP 2180027 A1 20100428 - NISSAN CHEMICAL IND LTD [JP], et al
- [X] EP 2172475 A1 20100407 - NISSAN CHEMICAL IND LTD [JP], et al
- [XP] EP 2410031 A1 20120125 - NISSAN CHEMICAL IND LTD [JP], et al
- [XP] EP 2319894 A1 20110511 - NISSAN CHEMICAL IND LTD [JP]
- [E] EP 2638921 A1 20130918 - NISSAN CHEMICAL IND LTD [JP], et al
- [X] TANMOY KAR ET AL: "Organogelation and Hydrogelation of Low-Molecular-Weight Amphiphilic Dipeptides: pH Responsiveness in Phase-Selective Gelation and Dye Removal", LANGMUIR, AMERICAN CHEMICAL SOCIETY, NEW YORK, NY; US, vol. 25, no. 15, 4 August 2009 (2009-08-04), pages 8639 - 8648, XP008142798, ISSN: 0743-7463, [retrieved on 20090401], DOI: 10.1021/LA804235E
- See references of WO 2012144609A1

Cited by

WO2019138355A1; US9782331B2; US10105294B2

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

**EP 2700691 A1 20140226**; **EP 2700691 A4 20141015**; **EP 2700691 B1 20181114**; CN 103608421 A 20140226; CN 103608421 B 20160831; CN 106176258 A 20161207; JP 5943211 B2 20160629; JP WO2012144609 A1 20140728; KR 101963441 B1 20190328; KR 20140039200 A 20140401; US 2014094420 A1 20140403; US 9328137 B2 20160503; WO 2012144609 A1 20121026

DOCDB simple family (application)

**EP 12774725 A 20120420**; CN 201280030216 A 20120420; CN 201610647553 A 20120420; JP 2012060742 W 20120420; JP 2013511061 A 20120420; KR 20137030881 A 20120420; US 201214113057 A 20120420